

Title (en)  
ARRANGEMENT FOR BIDIMENSIONAL DIFFERENTIAL PULSE CODE MODULATION

Publication  
**EP 0141127 B1 19871119 (DE)**

Application  
**EP 84110236 A 19840828**

Priority  
DE 3331426 A 19830831

Abstract (en)  
[origin: US4636856A] An arrangement for differential pulse code modulation coding comprises a controllable quantizer and a quantizer controller and is dependent on picture signal values. The quantizer controller contains a plurality of series-connected registers which store adjacent picture element signal values. A comparison device provides a differential formation between all picture signal values and a control is provided to which all results of the difference formations are supplied and which controls a multiplexer such that only the respectively highest and lowest picture signal values, the extrema, are through-connected for further processing. A subtractor, wherein the difference between the last picture element signal value and the extrema, as well as between the extrema themselves are identified is also provided. A difference selection control through-connects the maximum difference to a threshold logic which controls the quantizer in accordance with the amount of the maximum difference.

IPC 1-7  
**H04N 7/13**

IPC 8 full level  
**H03M 7/32** (2006.01); **G06F 7/49** (2006.01); **H04N 7/32** (2006.01); **H04N 19/124** (2014.01); **H04N 19/50** (2014.01)

CPC (source: EP US)  
**G06F 7/49** (2013.01 - EP US); **H04N 19/124** (2014.11 - EP US); **H04N 19/50** (2014.11 - EP US)

Cited by  
GB2191653A; EP0244660A3; EP0144066B1

Designated contracting state (EPC)  
AT CH DE FR IT LI

DOCDB simple family (publication)  
**US 4636856 A 19870113**; AT E30996 T1 19871215; AU 3253184 A 19850307; AU 549866 B2 19860220; BR 8404329 A 19850730; CA 1233901 A 19880308; DE 3331426 A1 19850314; DE 3467674 D1 19871223; EP 0141127 A1 19850515; EP 0141127 B1 19871119; JP S6072389 A 19850424

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**US 64172784 A 19840817**; AT 84110236 T 19840828; AU 3253184 A 19840830; BR 8404329 A 19840830; CA 462002 A 19840829; DE 3331426 A 19830831; DE 3467674 T 19840828; EP 84110236 A 19840828; JP 17856184 A 19840829